

CURA-99

SEQUENCE LISTING

<110> Shimkets, Richard A.
Leach, Martin D.

<120> NUCLEIC ACIDS CONTAINING SINGLE NUCLEIC ACID POLYMORPHISMS AND
METHODS OF
USE THEREOF

<130> 15966-599

<150> 60/163,783
<151> 1999-11-24

<160> 1468

<170> CuraGen Patent Formatter Version 0.9

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51

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51

<210> 61
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CURA-99

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51

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51

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51

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<223> Accession number cg43948037

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CURA-99

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<210> 78
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<223> Accession number cg43336176

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CURA-99

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51

<210> 82
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CURA-99

<223> Accession number cg43966625

<400> 82

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51

<210> 83

<211> 51

<212> DNA

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<223> Accession number cg44004317

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<210> 84

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<223> Accession number cg43925424

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CURA-99

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<223> Accession number cg27803682

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51

CURA-99

<210> 94
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51

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50

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51

<210> 104

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CURA-99

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51

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CURA-99

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<210> 107
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CURA-99

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<223> Accession number cg42914441

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<210> 110

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51

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<223> Accession number cg43929933

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CURA-99

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CURA-99

51

<210> 115
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51

<210> 116
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51

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CURA-99

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51

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CURA-99

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<400> 120

nacgcgttgg cgtcgtcctc gttgagctca tcaatccacc ac

42

<210> 121

<211> 51

<212> DNA

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<223> Accession number cg43054268

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CURA-99

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<400> 123
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CURA-99

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<210> 126
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CURA-99

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CURA-99

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CURA-99

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<210> 138
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<210> 139
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<210> 140
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CURA-99

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<400> 142
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51

<210> 143
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CURA-99

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CURA-99

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<210> 147
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gtgcgtgcgt gtgtgtgtg gtgtggatc gtgtgtgtg tttttgttt
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<210> 148
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<210> 149
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<210> 150
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CURA-99

<210> 151
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51

<210> 152
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<400> 152
attttagta gagacgggg ttcactgtgt tagccaggat ggtctcgatc t
51

<210> 153
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<223> Accession number cg43303871

CURA-99

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51

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<210> 155
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CURA-99

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<223> Accession number cg43923712

<400> 156

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<223> Accession number cg43936083

<400> 157

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51

<210> 158

<211> 50

<212> DNA

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<223> Accession number cg43936393

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<210> 159

<211> 50

<212> DNA

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CURA-99

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<400> 159
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actgtattat ttatttacat gggctaaaag caaagaaaaa tgagtccctt c
51

<210> 161
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CURA-99

<222> (0)...(0)

<223> Accession number cg43940880

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tagttgtaa gaactgtaca aaaaatgctt ctggagattt ctttggcaga

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<210> 162

<211> 51

<212> DNA

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51

<210> 163

<211> 51

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<223> Accession number cg43950657

<400> 163

cagctgccaa aaccgtgtgt gcaaggcgcc gacctaagg gacattcttg t

51

<210> 164

<211> 50

<212> DNA

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<222> (26)...(0)

CURA-99

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<223> Accession number cg43973740

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<210> 165

<211> 51

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<223> Accession number cg43980521

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51

<210> 166

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<400> 166

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51

<210> 167

CURA-99

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51

<210> 168
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<400> 168
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<210> 169
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agaagacctg gcttccttac aacagagaca ggctggtggc tggggctaga g

CURA-99

51

<210> 170
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<400> 170
gccccccagct aggaccctgt agttgagacc gtggcatgat acaaggacct g
51

<210> 171
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<210> 172
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CURA-99

<400> 172
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51

<210> 173
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<400> 173
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51

<210> 174
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CURA-99

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51

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51

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<211> 51

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CURA-99

<213> Homo sapiens

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51

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51

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CURA-99

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51

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51

<210> 183
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CURA-99

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51

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<223> Accession number cg43971614

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<210> 192
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CURA-99

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51

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51

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CURA-99

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51

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51

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<223> Accession number cg43950996

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<210> 201

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<223> Accession number cg44924222

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taagggttag cagcagcagg agcgcttga agaagaagta gaagggatg t
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<210> 202

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51

CURA-99

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CURA-99

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51

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51

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51

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CURA-99

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<223> Accession number cg43922383

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51

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51

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51

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CURA-99

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CURA-99

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51

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51

<210> 218
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<400> 218
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51

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CURA-99

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CURA-99

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51

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<223> Accession number cg43990820

CURA-99

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51

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51

<210> 226
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51

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CURA-99

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51

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<223> Accession number cg42907867

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CURA-99

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51

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<400> 232

CURA-99

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51

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CURA-99

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<222> (0)...(0)

<223> Accession number cg43950100

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51

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<222> (0)...(0)

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<400> 236

ctctatgaac tctgttttct ttctatgaga tattaaacca tgtaaagaac
50

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<211> 50

<212> DNA

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<221> misc_feature

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg44938448

<400> 237

CURA-99

tgaaagttag agagctgcaa atctctaagt atcaatgtaa agaaggcagat
50

<210> 238
<211> 51
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg44938448

<400> 238
aatgccactt tcagatggaa gggaaatgag atggaaaaca aaaaaaaaaagg a
51

<210> 239
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agcactttgg agctggcctc gcccttagga ggagagggtc ctcctgggt
50

<210> 240
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CURA-99

<223> single nucleotide polymorphism

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<222> (0)...(0)

<223> Accession number cg42549778

<400> 240

gggggtgctc ctggaagccc caagaccatc caggattgcc tcggcagctgc c
51

<210> 241

<211> 50

<212> DNA

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<222> (0)...(0)

<223> Accession number cg44028574

<400> 241

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50

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<212> DNA

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<220>

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<222> (0)...(0)

<223> Accession number cg44035718

<400> 242

tctcatctag tgctgaagtc tgaggactct gcagcatcag acccacctct a
51

<210> 243

CURA-99

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<400> 243
gaagagaaaag ataggtaaa tttatctgaa gttttcatgg tgttaatatt t
51

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<223> Accession number cg43963595

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51

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<223> Accession number cg43963595

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CURA-99

51

<210> 246
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<400> 246
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50

<210> 247
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aaatagagaa tccagaccct tcccaaataa tttaagaact gagttttcct c
51

<210> 248
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CURA-99

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<400> 248
atttaaatct gaagcagaaaa aaaaagacaa tttacaaaga attattgagc
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<210> 249
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<223> Accession number cg43067745

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51

<210> 250
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<223> Accession number cg42697161

<400> 250
acgtggtgct ggttagtgtct tgttgggtgt gaattctctc tcatacaaaa g
51

<210> 251
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CURA-99

<212> DNA
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gtgcaatggc atgatctcggtcactgcaa cctctgcctc ccgggttcaa g
51

<210> 252
<211> 51
<212> DNA
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<221> misc_feature
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<223> Accession number cg42391024

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51

<210> 253
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<220>
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<400> 253
ctttaatgaa acactttgga tcgtcggtgc tgaagtgaaa agaatgtgct g
51

CURA-99

<210> 254
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51

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<400> 255
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50

<210> 256
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CURA-99

<221> misc_feature

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<223> Accession number cg43925519

<400> 256

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51

<210> 257

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<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43145684

<400> 257

tggcaaaactt gccagcagcg gttgctgaaa atgctgggtt cggtgcc tac t
51

<210> 258

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg43981803

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51

<210> 259

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CURA-99

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<223> Accession number cg44006111

<400> 259

aggcctgatg cacatgtgca caggtgccta catgctctgt tcttgtcaac a
51

<210> 260

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<223> Accession number cg44924968

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51

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<223> Accession number cg44924968

<400> 261

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51

<210> 262

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CURA-99

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51

<210> 263
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<400> 263
taaagttaatt cattaatgtc caggaataga tgaggcctgg cacacatagc a
51

<210> 264
<211> 51
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51

<210> 265

CURA-99

<211> 51
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<400> 265
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51

<210> 266
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<400> 266
atgaggcctg gcacacatag cagaaagtaa tggttctata ggtgtatctt c
51

<210> 267
<211> 51
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<223> Accession number cg43977021

<400> 267
taatgcactt tgggctagag aaatacaaaa atcacacgta acaaaaaacaa a

51

<210> 268
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<223> Accession number cg43999373

<400> 268
cacagaattc agaacttttt caccggaaac tggagaagga gcactccgtc a
51

<210> 269
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<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43980889

<400> 269
ttttagatgc gcagcgaaaag cggctttatc acagactgga tttagttatg a
51

<210> 270
<211> 51
<212> DNA
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<220>
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<223> Accession number cg43980889

CURA-99

<400> 270
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51

<210> 271
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<400> 271
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50

<210> 272
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<400> 272
ggcaacaagt tacagcggcg ggagaagttc cttctctcac ctgccgggg g
51

<210> 273
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CURA-99

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<400> 273
agaagacagc gcgcagaaat agtgcagaga gaaatgacca gtactattta t
51

<210> 274
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<223> Accession number cg43958980

<400> 274
taagatccctc catccccacca aaaatgaccc acaatgactc caaatcttgt t
51

<210> 275
<211> 50
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<222> (26)...(0)
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<223> Accession number cg43320682

<400> 275
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50

CURA-99

<210> 276
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ccaggcttgc ctcttagattg gctggccaga atttctgggg tcagtctgaa
50

<210> 277
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<221> misc_feature
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<400> 277
gggaagtaaa atgaaggaag cagacttctt gctcatctt ccaaatgaaa t
51

<210> 278
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CURA-99

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<223> Accession number cg43298234

<400> 278
taaggccaga gcttgtgtgc tgggccagaa atcacctgct gcacccctgtg
50

<210> 279
<211> 51
<212> DNA
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<220>
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<222> (0)...(0)
<223> Accession number cg43926358

<400> 279
cagtatgtg ctggcccttt cagggccaca ggccccttca gcttcaccgg a
51

<210> 280
<211> 51
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<220>
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<221> misc_feature
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<223> Accession number cg35060315

<400> 280
ccaaactatc tcaccctacc ctccccagga tccacttctt tggaatgaca a
51

<210> 281
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CURA-99

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

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<222> (0)...(0)

<223> Accession number cg35060315

<400> 281

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50

<210> 282

<211> 51

<212> DNA

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<223> Accession number cg35060315

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ttttatccat ccatgttctc ccaaaatctg tgctttctt caacaggta t

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<210> 283

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<222> (26)...(0)

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg35060315

CURA-99

<400> 283
gttctcccaa atctgtgctt tcctttaca gtttatata taaaactatt t
51

<210> 284
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<223> Accession number cg35060315

<400> 284
cccaaatctg tgcttcctt caacacgtta tatattaaaa ctatttcatg a
51

<210> 285
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<223> Nucleotide deleted between bases 17 and 18

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<222> (0)...(0)
<223> Accession number cg44126579

<400> 285
tgtacaactg attagagggtt tttttttctt ttttctttc aa
42

<210> 286
<211> 50
<212> DNA
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<220>
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CURA-99

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (25)...(26)

<223> Nucleotide deleted between bases 25 and 26

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43951096

<400> 286

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50

<210> 287

<211> 50

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

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<223> Nucleotide deleted between bases 25 and 26

<221> misc_feature

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<223> Accession number cg43951096

<400> 287

cacagccata atatagagaa cagagttctc catgaacatc caccaggctg

50

<210> 288

<211> 51

<212> DNA

<213> Homo sapiens

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43960676

CURA-99

<400> 288
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51

<210> 289
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<400> 289
tcacacctaga tgagtgtggc tccccgcgct cccataactgc agcctgcccc t
51

<210> 290
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<400> 290
aagggaagcc tttttttttt ttttttttt tgcgaaaaca gaagccaagt
50

<210> 291
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<212> DNA
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<220>
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CURA-99

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg43969533

<400> 291

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50

<210> 292

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg39376027

<400> 292

ccggggaggt ggttctggta atctgtgggg gagccgggac aggccccc a

51

<210> 293

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg39376027

<400> 293

gggaggtgg tctggtaatc tgggtggag ccggacagg cgcggcgagt t

51

CURA-99

<210> 294
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<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43976681

<400> 294
ctctctcttc gccgccgacg cagaagggag ctggggagga aaaagctgct g
51

<210> 295
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43085556

<400> 295
gtaaggtaaa atgtgaatca atatgctagt tctggcaat tattctgcaa a
51

<210> 296
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43085556

<400> 296

CURA-99

caatatgtta gttctggca attatcctgc aaattctgcc agataattaa a
51

<210> 297
<211> 51
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<220>
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<223> Accession number cg43085556

<400> 297
aatatgttag ttctggcaa ttatttgca aattctgcc aataattaa g
51

<210> 298
<211> 51
<212> DNA
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<220>
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<222> (26)...(0)
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<221> misc_feature
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<400> 298
ttgttgttct caagctttc gccttatatt tagactaacc ctgcttattc c
51

<210> 299
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)...(0)
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<221> misc_feature
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CURA-99

<223> Accession number cg43085556

<400> 299

ttttcgcccta cattttagac taaccttgct tattcctgtg aatcaagtgg t
51

<210> 300

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43085556

<400> 300

taaccctgct tattcctgtg aatcacgtgg tgatcttctg cagcttggaa t
51

<210> 301

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

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<222> (0)...(0)

<223> Accession number cg43920089

<400> 301

gcatttgctg cttgtgcttg attttatttg gctcaatccc ttccctggcag c
51

<210> 302

<211> 50

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

CURA-99

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<223> Nucleotide deleted between bases 25 and 26

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43950850

<400> 302
aaacatgttc catcaaattc agaaaagcag gtatcagtga aactggagca
50

<210> 303
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43950850

<400> 303
aggaaaacca cgacgaccac taccgggcc taagcggtca gctttctcct c
51

<210> 304
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<223> single nucleotide polymorphism

<221> misc_feature
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catccgcgt gacggcagtc accggcgaga ccggcgccgg aaagaccatg g
51

<210> 305
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CURA-99

<212> DNA
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<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43976473

<400> 305
gacgctcgct gtcccccagg gccccgtgcg ccgcctcgta ggtacgaata c
51

<210> 306
<211> 51
<212> DNA
<213> Homo sapiens

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<221> misc_feature
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<223> Accession number cg44924858

<400> 306
gcttctgtca gacgttactt tcaccatgcc tgctgtttcc acaggaagag t
51

<210> 307
<211> 51
<212> DNA
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<220>
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<222> (26)...(0)
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<221> misc_feature
<222> (0)...(0)
<223> Accession number cg44924858

<400> 307
cgttactttc accgtgcctg ctgttccac aggaagagtc tgtctgtttcc a
51

CURA-99

<210> 308
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<220>
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<222> (0)...(0)
<223> Accession number cg44924858

<400> 308
accccagctt gcccgccagc acacagaact gtttcttgg cttgacgaat a
51

<210> 309
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<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43961591

<400> 309
acaccactgg tactcacacc ccctccggct gggttctctg gtgcgccctg c
51

<210> 310
<211> 51
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<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43924285

CURA-99

<400> 310
ctgcatatgt ttgcagttt ccatcgactt cttcataaac aaacaaacat t
51

<210> 311
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43924285

<400> 311
acattttcta gaaacccaaaa tatgtggtgg cccaaaggag ctcttaagca a
51

<210> 312
<211> 51
<212> DNA
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<220>
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<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43958224

<400> 312
gttgatcct cagccaggac gcacaagccc tacaagatcc cagccctcca a
51

<210> 313
<211> 50
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<220>
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<221> misc_feature

CURA-99

<222> (25)...(26)

<223> Nucleotide deleted between bases 25 and 26

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43971060

<400> 313

aacggcttta aacacaagct cagggcttgg gtttatccc gagggcacag

50

<210> 314

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> (26)...(0)

<223> single nucleotide polymorphism

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<222> (0)...(0)

<223> Accession number cg44927952

<400> 314

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51

<210> 315

<211> 51

<212> DNA

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<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg19885484

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51

<210> 316

<211> 36

<212> DNA

<213> Homo sapiens

CURA-99

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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg42307356

<400> 316
cggccgcggc tcggaacggc gcctcccgcc ccacca
36

<210> 317
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg44005017

<400> 317
tgggaggcct ggttccccct cccggtgtgc tgggacactc tgggttcctg c
51

<210> 318
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43329819

<400> 318
ttgagcttc ctacaagctg gaggccaaca gtcagtgaga gcgggggggc c
51

<210> 319

CURA-99

<211> 51
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43329819

<400> 319
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51

<210> 320
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43329819

<400> 320
gctggaggca aacagtca gt gagagtgggg gggccagtca gacccgacca a
51

<210> 321
<211> 50
<212> DNA
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<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
<222> (25)...(26)
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<221> misc_feature
<222> (0)...(0)

CURA-99

<223> Accession number cg44015618

<400> 321

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50

<210> 322

<211> 50

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

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<221> misc_feature

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<223> Accession number cg44015618

<400> 322

accacacacg cacacacaca cacaccttg tggctcaagt gcaggccaca

50

<210> 323

<211> 51

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg40361678

<400> 323

caacactttg ggaggccgag gcaggccgat cacctgaggt caggagttcg a

51

<210> 324

<211> 51

<212> DNA

<213> Homo sapiens

CURA-99

<220>
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<223> single nucleotide polymorphism

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<223> Accession number cg40361678

<400> 324
gtgaaacccc gtctctacta aaaattcaaa aattagccgg gcatggtggc g
51

<210> 325
<211> 51
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<220>
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<222> (26)...(0)
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<221> misc_feature
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<223> Accession number cg40361678

<400> 325
ctaaaaatac aaaaatttagc cggcggtggt ggcggatgcc tgtaatccca g
51

<210> 326
<211> 51
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<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43930957

<400> 326
aaaataaaac tctttgaaa gttgttggtc agctgaccag gtagaggatt c
51

<210> 327
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CURA-99

<212> DNA
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<221> misc_feature
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<223> Accession number cg43300636

<400> 327
caaaggcgcc aaagatgggg accagtacca cagccgccac gcccacctcc c
51

<210> 328
<211> 51
<212> DNA
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<220>
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<222> (26)...(0)
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<221> misc_feature
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<223> Accession number cg43967912

<400> 328
cattctctct ccaaaatttc tcagacttgt gcacaggact ccattccaac c
51

<210> 329
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)...(0)
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<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43967912

<400> 329
aaaatttctc agatttgtgc acagggtcc attccaacct tccagattta a
51

CURA-99

<210> 330
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<221> misc_feature
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<400> 330
atttgtgcac aggactccat tccaatcttc cagatttaag ttctgaactg t
51

<210> 331
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<212> DNA
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43132502

<400> 331
agtgggtggc accgcccagg ctgctattac ggctcatctt cattgatttg c
51

<210> 332
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<212> DNA
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<223> Accession number cg44924856

CURA-99

<400> 332
acacgcccag cagccgaatg atgttgggtt ccttgaggct cgacatgatc t
51

<210> 333
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<223> Accession number cg43991318

<400> 333
agcactcccc tggctcaccc ttctcccttc gtggtccttt ttcacctgg g
51

<210> 334
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<222> (0)...(0)
<223> Accession number cg41553795

<400> 334
ctgtgcacgt ggttgtcgct gagactgact accagagttt cgctgtcctg t
51

<210> 335
<211> 51
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<222> (26)...(0)
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<221> misc_feature

CURA-99

<222> (0)...(0)

<223> Accession number cg43973728

<400> 335

gcaaattcag atgcaaagcc gtggctaacg ggaaggttct tccgaatgat c

51

<210> 336

<211> 51

<212> DNA

<213> Homo sapiens

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<222> (26)...(0)

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43312829

<400> 336

tccaatcaaa gacaacagga ctccacgtaa ctgaatatga ggacaatttg a

51

<210> 337

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43312829

<400> 337

agacaacagg actccatgta actgagtagt aggacaattt gaagaaaatca t

51

<210> 338

<211> 51

<212> DNA

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CURA-99

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43312829

<400> 338

aggacaattt gaagaaatca tgggtgtgga aagagctata ttctgttaga a
51

<210> 339

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<212> DNA

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<223> Accession number cg43312829

<400> 339

gggtatggaa agagctatat tctgtcagaa atataaggcc atcctgccac g
51

<210> 340

<211> 51

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<223> Accession number cg43312829

<400> 340

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51

<210> 341

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CURA-99

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<400> 341
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51

<210> 342
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<221> misc_feature
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<223> Accession number cg43307992

<400> 342
tcgagggccca aacttttagt ttctcaacgg agaccatga ggagctgctg t
51

<210> 343
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<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43969759

<400> 343
tggctgtggg ctaccaggc ctcactacct cctccaggga gttgacttca g
51

<210> 344
<211> 51

CURA-99

<212> DNA
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<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg39523614

<400> 344
atgctggatc agatccagct gcacttaagt gtcgagccga cgaagatggg g
51

<210> 345
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg39523614

<400> 345
aagatgggaa cagttcgtc ctgaatggcg tcaaggcttg ggtcacggag g
51

<210> 346
<211> 51
<212> DNA
<213> Homo sapiens

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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg39523614

<400> 346
gggacagttt cgtcctgaac ggcgttaagg cttgggtcac ggaggctggc g
51

CURA-99

<210> 347
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<222> (26)...(0)
<223> single nucleotide polymorphism

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<222> (0)...(0)
<223> Accession number cg39523614

<400> 347
tcgagggcac ggtctgagtg ttgctctggg tacgcttgac aactctcgta t
51

<210> 348
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<220>
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<222> (26)...(0)
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<221> misc_feature
<222> (0)...(0)
<223> Accession number cg39523614

<400> 348
gtgtctcgat tgctgctcaa gcagtaggaa ttgcccaagg agcttttagac a
51

<210> 349
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)...(0)
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<221> misc_feature
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<223> Accession number cg42717491

CURA-99

<400> 349
aggctcacac tcacttcatg ttcttgacaa agtcctcgcc tttcttgatg g
51

<210> 350
<211> 51
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<220>
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<400> 350
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51

<210> 351
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<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg42717491

<400> 351
cagggatggc ctcggcaatc atttttcct caaaaggagt gattttgcc a
51

<210> 352
<211> 51
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<213> Homo sapiens

<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature

CURA-99

<222> (0)...(0)

<223> Accession number cg42717491

<400> 352

tcattttctc ctcaaaaagga gtgatcttgc caatgcctag gttcttctcc a

51

<210> 353

<211> 51

<212> DNA

<213> Homo sapiens

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg42711596

<400> 353

attagtatg ctgtgagctg tccttggttg aatctgattt agtttcagtt c

51

<210> 354

<211> 51

<212> DNA

<213> Homo sapiens

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<222> (0)...(0)

<223> Accession number cg43319420

<400> 354

agaagtcaaga aggccttcct gtggcccggt tcatggacccg agacaaagtg a

51

<210> 355

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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51

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51

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<223> Accession number cg43976227

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ctgggtgtat ctctgtctct ttatgaacca ctactttggc cactgacatg t
51

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CURA-99

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51

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aaccagcatc acctcggaac ttttcctcca tcaagttagc aatctgaatt t
51

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51

<210> 361
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CURA-99

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51

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51

<210> 363
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51

CURA-99

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51

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CURA-99

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51

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51

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51

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<223> Accession number cg25143358

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51

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<223> Accession number cg43105476

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51

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51

<210> 374

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51

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51

<210> 378
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CURA-99

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<400> 378
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51

<210> 379
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51

<210> 380
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<400> 380
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51

CURA-99

<210> 381
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<400> 381
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51

<210> 382
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<400> 382
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51

<210> 383
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CURA-99

<400> 383
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51

<210> 384
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51

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<400> 385
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<223> Accession number cg43975720

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51

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CURA-99

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<223> Accession number cg43311943

<400> 389

acaacacctggc ttcctgctac ctgaaggcagg gcaagtacca ggatgcagag a
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51

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<223> Accession number cg42488873

<400> 391

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51

<210> 392

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CURA-99

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<223> Accession number cg43935885

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51

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51

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51

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CURA-99

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51

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51

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51

CURA-99

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51

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51

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CURA-99

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51

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51

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CURA-99

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51

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51

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CURA-99

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acctgaaagc gagcgactgg aaagtgaacg gcgcgggtca taaagtttagc c
51

<210> 408

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<400> 408

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<210> 409

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CURA-99

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51

<210> 410
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51

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<210> 412
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CURA-99

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51

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51

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51

CURA-99

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51

<210> 416
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51

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CURA-99

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51

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CURA-99

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CURA-99

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<400> 442

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CURA-99

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51

<210> 448
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CURA-99

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51

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CURA-99

<400> 451
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51

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CURA-99

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51

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51

<210> 459

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51

<210> 460

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CURA-99

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51

<210> 461
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51

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51

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CURA-99

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51

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51

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51

CURA-99

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CURA-99

<400> 468
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51

<210> 469
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51

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51

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CURA-99

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<400> 471

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51

<210> 472

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

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CURA-99

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51

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CURA-99

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51

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51

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CURA-99

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51

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51

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51

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CURA-99

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CURA-99

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CURA-99

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

CURA-99

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CURA-99

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CURA-99

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CURA-99

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<223> Accession number cg43949821

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CURA-99

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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<223> Accession number cg43917221

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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<210> 1078
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<210> 1080
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<223> Accession number cg39380052

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<223> cSNP translation

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<210> 1097

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<400> 1099

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Pro Pro Arg Ser Glu Glu Ala Ala Val Leu Lys Gln Lys Leu
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CURA-99

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<210> 1103

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<210> 1107

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<210> 1108

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Leu Met Ser Val Lys Met Ala Lys Lys Tyr Lys Asn Ile Val
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<210> 1109

<211> 14

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Cys Asp Pro Glu Val Asn Asn Phe Arg Ala Lys Met Cys Gln
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<210> 1110

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<400> 1113
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<400> 1116
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<400> 1118
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<210> 1121

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<210> 1124

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<210> 1129
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<210> 1130
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<400> 1131
Asn Ser Ile Ser Val Arg Val Phe Leu Asp Glu Asp Asp Met
1 5 10

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<210> 1132
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<400> 1132
Gln Glu Asn Glu Asp Asn Arg Gln His Lys Glu Ser Leu Lys
1 5 10

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<400> 1133
Ser Ala Lys Lys Pro Ser Ser Gly Ser Arg Tyr Gln Pro Leu
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<210> 1134
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<400> 1134
Asp Gly Trp Leu Glu Gly Ala Arg Leu Ser Asp Gly Glu Arg
1 5 10

<210> 1135
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Gly Lys Asn Ser Ser Tyr Ala His Gly Gly Leu Asp Ser Asn
1 5 10

<210> 1136

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<400> 1136

Ser Asn Glu Ser Leu Val Ala Asn Arg Val Thr Gly Asn Phe
1 5 10

<210> 1137

<211> 14

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<400> 1137

Ser Tyr Ser Gln Ala Gly Val Thr Glu Thr Glu Trp Thr Ser
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<211> 14

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<400> 1138

Glu Pro Lys Ser Leu Leu Thr Leu Gly Ser Tyr Pro Pro Ala
1 5 10

<210> 1139

<211> 14

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<400> 1139

Phe Trp Ile Val Phe Ser Val Ile His Ile Ile Ala Thr Leu
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<210> 1140

<211> 14

<212> PRT

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Tyr Val Asp Pro Asp Arg Ile Lys Arg Ala Gln Ser Tyr Ala
1 5 10

<210> 1141

<211> 14

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<222> (7)...(0)

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<400> 1141

Glu Arg Leu Glu Arg Leu Glu Arg Glu Arg Gln Glu Arg Glu
1 5 10

<210> 1142

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<400> 1142

Arg Asp Lys Glu Arg Glu His Gln Arg Asp Trp Glu Asp Lys

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<400> 1143
Tyr Ser Ser Ser Gly Pro Asp Leu Arg Arg Ser Leu Phe Ser
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<400> 1144
Gln Pro Ala Pro Ser Pro Asp Asp Leu Ala Leu Ser Met Gly
1 5 10

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<400> 1145
Phe Asp Phe Gln Val Gly Glu Glu Ala Pro Ile Leu Pro Asp
1 5 10

<210> 1146
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<222> (7)...(0)

<223> cSNP translation

<400> 1146

Leu Gln Glu Lys Leu Trp Val Ile Leu Gln Ala Thr Tyr Ile
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<210> 1147

<211> 14

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<400> 1147

Cys Gly Lys Ser Val Tyr Val Ala Glu Lys Val Met Gly Gly
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<210> 1148

<211> 14

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<223> cSNP translation

<400> 1148

Lys Ser Lys Ser Asn Ser Thr Ala Ala Arg Glu Pro Asn Gly
1 5 10

<210> 1149

<211> 14

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<223> cSNP translation

<400> 1149

Leu Ser Pro Gly Gly Glu Phe Gln Lys Trp Asn Gly Thr Ala
1 5 10

<210> 1150

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CURA-99

<212> PRT

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<222> (7)...(0)

<223> cSNP translation

<400> 1150

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1 5 10

<210> 1151

<211> 14

<212> PRT

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<400> 1151

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1 5 10

<210> 1152

<211> 14

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<400> 1152

Gly Lys Arg Leu Phe Val Ile Lys Pro Ser Leu Tyr Tyr Asp
1 5 10

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<211> 14

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<213> Homo sapiens

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<223> cSNP translation

<400> 1153

CURA-99

Leu Val Pro Asp Glu Asp Val Arg Ala Ala Lys Trp Ala Val
1 5 10

<210> 1154

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Ala Leu Ser Ala Trp Pro Gln Leu Asp Gln Ala Ser Arg Cys
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Ile Trp Ser Phe Cys Phe Tyr Val Val Thr Val Phe Ser Val
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<400> 1157

Asn Leu Ser Asn Phe Leu Asn Lys Ser Gly Leu Gln Gly Tyr
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Thr Ser Ser Ser Lys Asn Arg Asp Pro Ile Thr Ile Val Asp
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Arg Leu His Asn Glu Val Asp Arg Lys Leu Gly Lys Pro Asp
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Met Leu Leu Pro Ser Trp Arg Thr Ser Ser Tyr Val Gly Ala
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Gly Leu Leu Gly Thr Leu Ile Ala Met Leu Leu Pro Ser Trp
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Val Lys Thr Pro Glu Thr Ile Val Pro Thr Ala Pro Glu Leu
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Gln Pro Ser Thr Ser Thr Asn Gln Pro Val Thr Ser Glu Pro
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Gln Ala Arg His Arg Thr Gly Gly Thr Asn Thr Pro Pro Ser
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Phe Lys Asn Ile Lys Ser Ala Thr Glu Leu Asn Gly Asp Ile
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Glu Leu Ala Ile Asn Pro Val Gly Asp Arg Ile Ile Asn Ala
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Lys His Met Glu Met Glu Asp Ile Ser Ser Glu Glu Val Val
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Ile Ser Pro Leu Thr Pro Ile Ser Val Ser Pro Ala Asn Arg
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Cys Pro Pro Asp Tyr His Tyr Ile His Thr Glu Ile Ser Arg
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Ser Phe Leu Val Arg

1 5

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Gly Ile Pro Gly Gly Pro Gly Gly Pro Gly Cys Gln Glu Leu

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Lys Tyr His Gly Val Ser Pro Leu Asn Pro Pro Glu Thr Leu

1 5 10

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Thr Val Tyr Pro Pro Leu Leu Ser Ile Gln Ala His Ser Gly
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Leu Ala Leu Pro Ser Val Thr Leu Cys Thr Phe Asn Ser Tyr
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<400> 1182
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<400> 1183
Leu Asp Ile Ala Thr Asp His Val Gln Lys Arg Lys Gln Phe
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Pro Lys Ser Gly Asp Trp Phe Cys Pro Asn Pro Ser Cys Gly
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<400> 1187
Arg Glu Glu Ser Gln Lys Cys Leu Lys Glu Phe Gln Glu Asn
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Glu Asp Phe Lys Lys Asp Val Lys Asn Ser Leu Arg Glu Thr
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<223> cSNP translation

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Glu Thr Gln Glu Asn Ile Ser Lys Gln Val Glu Ala Tyr Arg
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Leu Ser Thr Tyr Ser Leu Asp Trp Val Met Ala Ala Val Val

CURA-99

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Ile Ile Cys Cys Ser Glu Leu Pro Val Val Lys Thr Glu Met
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Glu Asn Gly Asp Phe Ala Ser Phe Arg Val Glu Arg Ala Glu
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<400> 1203

Leu Met Glu Glu Lys Phe Pro Gly Asp Ala Gly Leu Gly Lys
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Asn Asp Leu Lys Leu Asn Ser Lys Met Arg Glu Glu Tyr Asp
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Asp Phe Gly Leu Ser Lys Ile Gly Leu Met Ser Leu Thr Thr
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Ala Thr Arg Ala Thr Leu Glu Lys Glu Phe Gly Gly Gly His
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<400> 1215

Thr Ile Lys Ser His Ser Asn Leu Pro Pro Asn Asn Ser Tyr
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<210> 1216

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<400> 1217
Val Ser Ile Phe Asn Leu Gly Gly Met Glu His His Val Arg
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<400> 1218
Pro Ala Gln Asp Asp Arg Pro Phe Tyr Gln Phe Glu Ala Ala
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<400> 1220
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1 5 10

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Asp Ser Val Trp Met Glu Val Asp Asp Glu Glu Asp Leu Pro
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Ser Thr Thr Gly Thr Pro Leu Ser Ser Ala Pro Asp Pro Lys
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<210> 1223
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<400> 1223
Gln Arg Arg Leu Asp Gln Phe Ile Gly Lys Pro Ser Leu Phe
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<210> 1224
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<400> 1224
Pro Pro Pro Trp Ser Lys Tyr Val Glu Tyr Thr Phe Thr Gly
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Thr Phe Gly Phe Gln Gly Lys Ala Leu Ser Ser Leu Cys Ala
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<400> 1226
Lys Leu Asn Thr Ser Asn
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<210> 1227
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<222> (7)...(0)
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<400> 1227
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1 5 10

<210> 1228
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Gly Lys Leu Val Leu Asn Gln Asn Pro Val Asn Tyr Phe Ala
1 5 10

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<400> 1229
Glu Tyr Gln Val Leu Phe Gly Ala Leu Ile Ser Pro Asp Arg
1 5 10

<210> 1230
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<400> 1230
Gln Arg Asp Leu Gly Tyr Val Pro Leu Val Ser Trp Glu Glu
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<400> 1231
Cys Thr Ala Ser Ala Thr Leu Ser Cys Asn Asp Leu Cys Glu
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<210> 1232
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<400> 1232
Arg Pro Leu Thr Thr Gln His Pro Gln Ser Gly Thr Leu Lys
1 5 10

<210> 1233
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<400> 1233
Gly Ser Leu Ala Arg Ala Glu Glu Ala Gly Lys Leu Glu Glu
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<210> 1234
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<400> 1234
Lys Ile Ile Lys Val Lys Ser Val Lys Asp Arg Glu Asp Val
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<400> 1235
Ala Leu Arg Ser Leu Gln Ser Arg Cys Leu Val Pro Gly Tyr
1 5 10

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<400> 1236
Ile Ser Ala Ser Ser Gln Ala Pro Leu Ala Leu Arg Ser Leu
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<400> 1237
Thr Lys Asn Ser Val Met Ser Lys Leu Tyr Gly Asp Ala Asp
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<210> 1238
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<400> 1238
Leu Leu Arg Pro Gly Ser Ser Ala Arg Val Val Gln Cys Ile
1 5 10

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<400> 1239
Cys Asp Arg Ser Trp Ile Asn Asp Gln Tyr Asp Arg Phe Val
1 5 10

<210> 1240
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Thr Gly Asp Lys Arg Phe Gly Cys Ala Gln Cys Gln Lys Arg
1 5 10

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<223> cSNP translation

<400> 1241

Thr Ser Val Gly Pro Asn Thr Val Ser Pro Ser Ser Gly Pro
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<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1242

Cys Glu Gln Gly Phe Ser Arg Lys Ser His Leu Ile Arg His
1 5 10

<210> 1243

<211> 14

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<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1243

Thr Leu Tyr His His Val Asp Gly Cys Asp Val Phe His Leu
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<223> cSNP translation

<400> 1244

Met Ala Leu Phe Thr Pro
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<211> 14

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<213> Homo sapiens

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<400> 1245

Cys Ile Asn Val Leu Val Pro Gly Phe Ile Met Val Ser Gly
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<400> 1246

Thr Val Ser Ile Ser Ile Trp Ala Ser Leu Gln Gln Thr Gln
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<400> 1247

Ser Glu Leu Asn Gln Pro Pro Glu Leu Leu Pro Gln Phe Ser
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<210> 1248

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<223> cSNP translation

<400> 1248

Thr Pro Gln His Cys Ser Arg Asn Asn Phe Thr Met Arg Leu

CURA-99

1

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<400> 1249

Trp Leu Lys Gly Gly Glu Gln His Ser Ala Leu Pro Glu Gln
1 5 10

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<223> cSNP translation

<400> 1250

Ile Thr Gly Thr Phe Lys Tyr Arg Lys Met Thr Leu Val Glu
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<210> 1251

<211> 14

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<213> Homo sapiens

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<223> cSNP translation

<400> 1251

Cys Asp Gln Lys Pro Cys Asn Cys Pro Lys Gly Asp Val Asn
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<211> 14

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Pro Gly Leu Gly Ser Pro Glu Arg Tyr Ser Pro Val His Gly
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<211> 14

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<223> cSNP translation

<400> 1253

Gly Ala Val Leu Val Leu Tyr Ser Leu Pro Leu Glu Phe Pro
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<211> 14

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<223> cSNP translation

<400> 1254

Ile Glu Ala Glu Ser Ser Asn Leu Thr Ser Val Thr Thr Glu
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<223> cSNP translation

<400> 1255

Leu Thr Trp Pro Ala Asp Thr Leu His Cys Thr Glu Cys Val
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<210> 1256

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<212> PRT
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<223> cSNP translation

<400> 1256
Leu Thr Ser Ser Tyr Ser Leu Asp Val Ser Asp Tyr Lys Glu
1 5 10

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<400> 1257
Lys Lys Val Glu Phe Val Pro Lys Gln Leu Arg Ile Met Gln
1 5 10

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<223> cSNP translation

<400> 1258
Val Leu Gln Ala Gly Ala
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<223> cSNP translation

<400> 1259

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Glu Ser Val Gln Gln Gln Thr Glu Phe Leu Asn Arg Gln Leu
1 5 10

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<213> Homo sapiens

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<223> cSNP translation

<400> 1260

Asn Pro Phe Gly Pro Val Pro Gly Ala Gln Ile Gln Phe
1 5 10

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<211> 14

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<213> Homo sapiens

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<223> cSNP translation

<400> 1261

Gly Cys Val Asp Ile Ala Glu Ile Leu Leu Ala Ala Lys Cys
1 5 10

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<213> Homo sapiens

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<223> cSNP translation

<400> 1262

Ser Glu Ser Ser Ile Lys Glu Lys Phe Leu Lys Arg Lys Gly
1 5 10

<210> 1263

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<400> 1263

Asn Leu Val Pro Val Arg Met Phe Met Ala His Gln Asp Leu
1 5 10

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<400> 1264

Gln Arg Lys Arg Leu Gln Pro Gln Leu Glu Glu Arg Ser Arg
1 5 10

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<400> 1265

Phe Leu Tyr Ile Ser Leu Thr Asp Met Phe Pro Glu Met Asn
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<223> cSNP translation

<400> 1266

Gly His Thr Leu Asp Val Leu Lys Arg Lys Phe His Tyr Phe
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<210> 1267

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<400> 1267
Gly Lys Thr Val Leu Ser Leu Gly Phe Thr Glu Val Met Pro
1 5 10

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<400> 1268
Leu Ser Leu Ile Ile Gly His Pro Ile Ala Val Leu Met Tyr
1 5 10

<210> 1269
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Gln Glu Glu Gln Met Glu Pro Glu Gln Gln Asn Lys Asp Glu
1 5 10

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<400> 1270

Glu Ala Gln Arg Leu Ile Thr Gln Gln Gly Leu Val Asp Gly
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<210> 1271

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<212> PRT

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<400> 1271

Ser Pro Gly Lys Cys Asp
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<400> 1272

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<211> 14

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<400> 1273

Ser His His Asp Pro Ile Ile Lys Val Leu Ser Ile Arg Gly
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<210> 1274

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<400> 1275
Asn Phe Lys His Ala Ser Ser Ile Leu Pro Ile Thr Glu Phe
1 5 10

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<400> 1276
Pro Ile Ala Glu Thr Ile Lys Ala Ser Ser Asn Glu Ser Leu
1 5 10

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<400> 1277
Thr Ser Leu Ala Pro Ala Ser Leu Ile Thr Met Pro Ala Thr
1 5 10

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<210> 1278
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<400> 1278
Lys Glu Trp Val Asp Lys Cys Asp Pro Gly Ala Leu Val Ile
1 5 10

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<400> 1279
Ser Pro Arg Met Pro Ser Phe Gly Phe Ala Ala Glu Gly Arg
1 5 10

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<220>
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<400> 1280
Ser Ile Ile His Ile Ile Ser Thr Leu Leu Leu Ser Thr Gln
1 5 10

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<400> 1281

Lys Glu Glu Leu Asp Arg Ser Cys Arg Glu Cys Lys Arg Lys
1 5 10

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<212> PRT

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<223> cSNP translation

<400> 1282

Arg Asp Arg Asp Arg Glu Gly Asp Arg Asp Arg Asp Arg Asp
1 5 10

<210> 1283

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1283

Lys Glu Ser Glu Leu Gln Val Thr Ser Ala Ala Ser Pro His
1 5 10

<210> 1284

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1284

Gly Ser Ser Arg Ser His Cys Arg Glu Glu Arg Ser Arg Arg
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<210> 1285

<211> 14

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<213> Homo sapiens

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<220>
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<400> 1285
Ser Ala Ala Ser Ser Val Leu Arg Arg Glu Tyr Lys Pro Arg
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<400> 1286
Asp Ile Pro Ile Ile Leu Phe Gly Asn Lys Ser Asp Leu Val
1 5 10

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<400> 1287
Ile Arg Phe Arg Gln Asp Ser Asn Glu Ala Val Gly Gly Phe
1 5 10

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<400> 1288
Thr Thr Val Phe Glu Asp Pro Tyr Asp Tyr Met Asn Ser Leu
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<210> 1289

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<223> cSNP translation

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Pro Arg Gln Asn Ser Gln Pro Pro Ala Gln Val Gln Asn Gly
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<223> cSNP translation

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Gln Gln Lys Leu Trp Asn
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<211> 14

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<222> (7)...(0)

<223> cSNP translation

<400> 1291

Ala Ile Glu Thr Gln Leu Pro Glu Tyr His Lys Leu Ala Arg
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<210> 1292

<211> 14

<212> PRT

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<221> VARIANT

<222> (7)...(0)

CURA-99

<223> cSNP translation

<400> 1292

Asn Lys Lys Met Gly Leu Gly Asp Thr Leu Glu Gln Leu Asn
1 5 10

<210> 1293

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1293

Phe Ser Thr Pro Glu Ala Arg Gly Glu His Gly Leu Ala Pro
1 5 10

<210> 1294

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1294

Gln Lys Phe Gln Val Asp Lys Ser Asn Arg Leu Leu Leu Gln
1 5 10

<210> 1295

<211> 14

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<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1295

Gln Gln Val Ser Leu Pro Tyr Ile Pro Gly Asn Tyr Thr Val
1 5 10

<210> 1296

<211> 14

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CURA-99

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1296

Lys Glu Glu Glu Gln Ala Glu Lys Asn Lys Leu Ser Gly Lys
1 5 10

<210> 1297

<211> 14

<212> PRT

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<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1297

Val Ser Leu Pro Lys Leu Thr Asn Val Gln Leu Leu Asp Thr
1 5 10

<210> 1298

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1298

Asn Val Gln Leu Leu Asp Ile Asp Gly Gly Phe Val His Ser
1 . 5 10

<210> 1299

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1299

Tyr Gln Glu Glu Leu Arg Phe His Tyr Lys Asp Met Leu Ser

CURA-99

1

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10

<210> 1300

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1300

Asn Phe Pro Ile Thr Phe Thr Cys Tyr Ala Ala Leu Phe Cys
1 5 10

<210> 1301

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1301

Arg Asp Glu His Leu His Lys Met Ala Leu Glu Gln Ile Thr
1 5 10

<210> 1302

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1302

Ile Ala Thr Lys Glu Glu Ile Ser Leu Leu Glu Ala Trp Lys
1 5 10

<210> 1303

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

CURA-99

<222> (7)...(0)

<223> cSNP translation

<400> 1303

Phe Thr Trp Leu Ser Pro Glu Gly Glu Tyr Gln Lys Trp Asn
1 5 10

<210> 1304

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1304

Gly Pro Leu Pro Glu Asn Val Thr Trp Leu Ser Pro Gly Gly
1 5 10

<210> 1305

<211> 14

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<222> (7)...(0)

<223> cSNP translation

<400> 1305

Val Phe Asn Ser Asp Glu Ser Ser Trp His Leu Val Glu Asp
1 5 10

<210> 1306

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1306

Arg Lys Ser Phe Val Phe Gly Leu Asn Glu Cys Ala Ser Ser
1 5 10

<210> 1307

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<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1307
Gly Gln Glu Tyr His Leu
1 5

<210> 1308
<211> 14
<212> PRT
<213> Homo sapiens

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<222> (7)...(0)
<223> cSNP translation

<400> 1308
Lys Asp Gly Ala Pro Trp Phe Gly Arg His Tyr Cys Glu Ser
1 5 10

<210> 1309
<211> 14
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<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 1309
Tyr Ser Ser Thr Asp Thr Leu Tyr Pro Gly Ser Leu Pro Pro
1 5 10

<210> 1310
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<220>
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<400> 1310

CURA-99

Ile Leu Asn Ser Lys Asp Gln Leu Gln Val Glu Asn Asp Ala
1 5 10

<210> 1311

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1311

Asn Ser Lys Asp His Leu
1 5

<210> 1312

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1312

Pro Gly Thr Asp Arg Thr Ala Asn Val Lys Tyr Arg Gln Val
1 5 10

<210> 1313

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1313

Phe Thr Lys Ile Lys Thr Ser Asp His Gln Tyr Met Glu Gly
1 5 10

<210> 1314

<211> 14

<212> PRT

<213> Homo sapiens

<220>

CURA-99

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1314

Ala Gly Leu Asp Ala Gln Met Val Met Gln Asp Asp Ala Ile
1 5 10

<210> 1315

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1315

Val Gly Gly Trp Ala Gly Phe Asp Ala Gln Val Val Met Gln
1 5 10

<210> 1316

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1316

Ile Thr Ala Asp Gln Leu Ser Gly Val Gly Gly Trp Ala Gly
1 5 10

<210> 1317

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1317

Val Gln Pro Gln Ile Asn Met Thr Ala Asp Gln Leu Leu Gly
1 5 10

<210> 1318

CURA-99

<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1318
Asn Tyr Lys Asp Gln Leu Pro Gln Leu Asn Val Arg Val Leu
1 5 10

<210> 1319
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1319
Leu Met Lys Phe Tyr Leu Leu Leu Thr Gly Ile Pro Val Ile
1 5 10

<210> 1320
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1320
Ala Leu Thr Ala Leu Ser Gly Arg Arg Ala Gly Thr Arg Leu
1 5 10

<210> 1321
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<223> cSNP translation

CURA-99

<400> 1321

His Leu Ala Ala Glu Arg Gly Ala Glu Ile Arg Ser Leu Cys
1 5 10

<210> 1322

<211> 14

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<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1322

Thr Ile Phe Leu Ser Lys Phe Gln Thr Asp Val Arg Glu Lys
1 5 10

<210> 1323

<211> 14

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<222> (7)...(0)

<223> cSNP translation

<400> 1323

Ala Leu Ser Tyr Gly Phe His Gly Cys His Cys Gly Val Gly
1 5 10

<210> 1324

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1324

Ile Ala Cys Pro Glu Thr Gly Thr Pro Ala Val Ile Thr Cys
1 5 10

<210> 1325

<211> 14

<212> PRT

<213> Homo sapiens

CURA-99

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1325

Val Cys Pro Ile Arg Asp Ser Cys Arg Trp Val Ile Asp Gly
1 5 10

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Leu Ser Ala Trp Pro Glu Pro Asp Gln Ala Ser Arg Cys Leu
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<213> Homo sapiens

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Ile Ser Phe Ile Phe Arg Lys Gly Arg Lys Asn Ser Gly Ile
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<400> 1328

His Glu Ile Met Gly Pro Glu Lys Lys His Leu Asp Tyr Leu
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<210> 1329

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Glu Ile Met Gly Pro Lys Asn Lys His Leu Asp Tyr Leu Ile
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Glu Met Asn Val Asn Ile Ser Gln Leu Ala Asp Ser Leu Phe
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Glu Gln Ser Val Gln Ser Gln Pro Glu Glu Glu Asp Glu
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Arg Thr Arg Ala Cys Phe Arg Gln Trp Leu Cys Arg Leu His
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Ala Cys Phe Thr Gln Trp Pro Cys Arg Leu His Asn Glu Val
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<400> 1334
Met Val Thr Ser Ser Ala Met Ser Ser Leu Ala Cys Ile Ile
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Val Ala Met Leu Leu Pro Asn Trp Lys Thr Ser Ser Tyr Val
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Leu Gln Pro Ser Thr Ser Arg Asp Gln Pro Val Thr Ser Glu
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Ser Thr Ser Thr Asp Gln Leu Val Thr Ser Glu Pro Thr Ser
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Thr Asp Gln Pro Val Thr Pro Glu Pro Thr Ser Gln Ala Thr
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Arg Ala Arg Arg Ser Asn Cys Arg Arg Gln Glu Gly Ile Lys
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Gly Trp Arg Ala Ile Asn Ser Ser Met Ala Ala Pro Ser Ser
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Glu Pro Leu Asn Ser Arg Gly Asn Lys Leu His Phe Ala Phe
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Ile Asn Pro Leu Gly Asp Trp Ile Ile Asn Ala Phe Phe Pro
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Ser Arg Glu Asp Phe Gln Gly Ile Pro Glu Leu Ala Ile Asn
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<400> 1348

Glu Val Ser Ala Asp Gly Glu Thr Ile Thr Val Thr Phe Phe
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Ala Lys Lys Glu Met Val Ser Ser Lys Leu Pro Asn Ser Val
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Ile Gln Pro Asp Gly Ser Gly Ser Ala Val Leu Trp Cys Asp

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<400> 1351
Lys Trp Phe Glu Val Lys His Ile Ser Thr Glu Glu Ile Ser
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Lys Ser His Phe Gln Ala Thr His Ser Glu Ser Ser Asp Thr
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Thr Met Gly Ser Thr Glu Ala Arg Val Asp Tyr Met Gly Ser
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Ser Lys Glu Ala Ile His Ile Gln Leu Leu Glu Lys Gln Lys
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Lys Pro Ile Thr Arg Lys Gly Val Gly His Arg Met Gly Gly
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Arg Ser Cys Ser His Pro Ser Gln Leu His Arg Leu Val Phe
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<223> cSNP translation

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Thr Ile Ser Pro Leu Thr Leu Val Ser Val Ser Pro Ala Asn
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<400> 1362

Met Gly Ser His Glu Pro Met Ile Ser Pro Leu Thr Pro Val
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Arg Ile Gly Leu Gly Leu Gly Arg Trp Ala Trp Arg Leu
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Val Met Arg Ile Gly Leu Gly Trp Ala Gly Arg Trp Ala Trp
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Gly Leu Thr Gln Asn Lys Ala Cys Gln Lys Thr Leu Ser Met
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Val Gln Trp Val Ala Pro Arg Gly Cys Cys Tyr Gly Ser Ser
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Pro Gly Asn Asn Arg Lys Cys Met Asn
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<400> 1368

Ser Val Gly Ala Leu Glu Ala Asn Ser Arg Arg Lys Leu Ala
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<222> (7)...(0)
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Cys Gln Gly Asp Ser Gly Ala Arg Trp Cys Val Arg Thr Lys
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<400> 1370
Cys Gln Gly Asp Ser Gly Ala Arg Trp Cys Val Arg Thr Lys
1 5 10

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<400> 1371
Ile Glu Thr Tyr Phe Ser Lys Thr Thr Lys Thr Met Ser Ile
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Pro Leu Ser Gly Ala Leu Ala Gln Ser Leu Arg Pro Ser Lys
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<223> cSNP translation

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Trp Met Arg Asn Arg Arg Thr Val Pro Arg Gln Pro Ser Glu
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Phe Ser Gly Arg Leu Lys Ala Glu Gly Thr Ser Cys
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Leu His Arg Ala Phe Ser Val Ser Tyr Ser Thr Pro Lys Ile
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Ser Lys Val Leu Glu Glu Gly Arg Pro Pro Arg Arg Ala Cys
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Ala Glu Glu Gly Leu Arg Glu Cys Ser Ala Ala Gly Gly Ser
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Glu Leu Gln Arg Ser Arg Arg Ser Ala Thr Arg Thr Trp Arg
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Glu Asp Val Glu Ala Leu Ala Pro Ser Thr Arg Arg Arg Arg
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<210> 1380

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Glu Ile Asn Cys Arg Arg Arg Thr Met Gly Thr Ser Ser Pro
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<400> 1381

Gly Met Glu His His Val Ala Pro Ala Ser Pro Lys Trp Ser
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Val Ala Ala Glu Ala Leu Leu Lys Lys
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Gly Cys Pro Lys Met Gly Thr Met Leu Thr Asn Leu Arg Gly
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Pro Cys Pro Ala Glu Gly Ser Pro Lys Trp Gly Thr Met Leu
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Ala His Thr Ala Ala Glu Gly Ala Gly Gly Trp Gly Ala Ala
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Leu Gln Glu Thr Leu Leu Gly Leu Phe Gly Leu Trp Cys
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Asp Lys Ala Glu Lys Thr Lys Lys Lys Lys Lys Arg Lys
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<222> (7)...(0)
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<400> 1388
Lys Lys Glu Cys Tyr Tyr Ile Ser Met Thr Pro Val Ser Val
1 5 10

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Glu Ser Leu Ile Asp Glu Glu Arg
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Glu Tyr Lys Leu Val Val Gly Ala Pro Ala Val Trp Ala Arg
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Glu Tyr Lys Leu Val Val Val Ala Pro Ala Val Trp Ala Arg
1 5 10

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<400> 1393
Tyr Asp Ala Asp Ala Gly Arg Met Thr Cys His Cys Trp Ser
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<223> cSNP translation

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Met Arg Tyr Asp Ala Asp Ala Gly Gly Glu
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Gly Val Ser Gly Val Lys Pro Gln Gly
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<400> 1399

Asp Arg Val Pro Leu Arg Thr Arg Thr Ser Pro Leu Lys Arg
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<400> 1400

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<400> 1402
Ser Glu Leu Arg Gly Gly Leu Thr Gly Ala Ser Thr Ser Ser
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<400> 1403
Val Ala Leu Ser Ser Ala Gly Val Leu Ser Pro Met Val Ala
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<222> (9)...(0)
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<400> 1404
Leu Val Lys Leu Lys Leu Lys Lys Ile Pro Trp Met Thr Phe
1 5 10

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<222> (7)...(0)

<223> cSNP translation

<400> 1405

Ser Asn Ser Ile Ser Val Met Gly Val Ser Arg
1 5 10

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<222> (8)...(0)

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Thr Glu Trp Ser Gln Trp Ser Asn Val Thr Ser His Val Gly
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Tyr Arg Arg Gln Gly Leu Pro Ile Thr Ile Gly Glu
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<223> cSNP translation

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Val Gly Asp Ala Cys Asp Ser Ala Leu Lys
1 5 10

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<212> PRT
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<223> cSNP translation

<400> 1409
Ser Val Glu Pro Glu Arg Asp Leu Thr Phe Leu Leu Thr
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<222> (7)...(0)
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<400> 1410
Leu Gln Ile Met Leu Gln Ala Glu Ser Ala Thr Arg Thr Glu
1 5 10

<210> 1411
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<223> cSNP translation

<400> 1411
Phe Gly Phe Ser Ser Gly Pro Ser
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<222> (10)...(0)
<223> cSNP translation

<400> 1412

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Pro Glu Lys Gln Leu Val Glu Lys Lys Val Leu Thr Lys Gln
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<223> cSNP translation

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Val Val Val Met Gly Pro Pro Lys Leu Glu Arg Ala Leu
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<223> cSNP translation

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Phe Ser Glu Asp Asp Pro Trp Arg Pro Leu Ser Ile Gly Pro
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<223> cSNP translation

<400> 1415

Asn Gln Ser Gln Glu Leu Gln Arg Ser Trp Arg Thr Ala Gly
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<400> 1416

Asn His Met Val Gln Gln Asp Ile Ser Pro Arg Pro Leu His
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<400> 1417

Lys Trp Pro Thr Leu Gln Asp Trp Pro Val Leu Pro Trp Arg
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Phe Val Gly Arg Phe Phe Arg Ala Thr Met Ala Thr Gln Leu
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Gln Ile His Arg Ile Arg His Phe Thr
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Thr Leu Glu Glu Gly Asn Gln Gln Thr Arg Ser Pro Val Pro
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<400> 1421
Ala Thr Leu Glu Glu Gly Asn Gln Gln Thr Arg Ser Pro Val
1 5 10

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Ile Leu Asn Gln Pro Thr Leu Arg Leu Leu Pro Met Pro Glu
1 5 10

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CURA-99

<400> 1423

Val Asn Cys Ser Ala Val Cys Ala Ser Ser Ser Val Pro Cys
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<223> cSNP translation

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Ala Ala Pro Leu Lys Ile Lys Leu Ile Ser Met Arg Leu Gln
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Glu Glu Val Glu Glu Gly Glu Lys Arg Met Phe Ser Pro
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<223> cSNP translation

<400> 1426

Arg Val Gly Thr Pro Ser Gln Gly His Phe Phe Glu Gly Ala
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Pro Cys Ala Val Leu Arg Pro Leu Gly Leu Trp Ser Pro Ser
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Leu Gly Tyr Thr Pro Gln Arg Pro Val Lys Cys Ala Ser Cys
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Phe Gln Ala Ala Ile Glu Lys Lys Asn Ser Cys Ile Ser Thr
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<400> 1430
Leu Leu Tyr Trp
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<213> Homo sapiens

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<220>
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Phe Cys Asn Gly Gln Arg Ser Gly Ser Pro Gly Arg Gln Ile
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Met Lys Ile Gln Tyr Pro Ala Trp Pro Arg Ala Ser Thr Val
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<400> 1433
Met Lys Ile Gln Tyr Pro Ala Trp Pro Arg Ala Ser Thr Val
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Glu Pro Leu Glu Met Ala Arg Pro Leu Ala His Pro Val Ala
1 5 10

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<210> 1435

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<400> 1435

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<212> PRT

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<223> cSNP translation

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Arg Leu Asp Arg Glu Arg Lys Lys Asp Lys Asn Glu Arg Gly
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<211> 8

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

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Glu Ser Lys Arg Ser Val Lys Leu
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<212> PRT

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<400> 1438

Asp Ile Ser Ile Cys Gln Glu Cys Pro Ala Trp Arg
1 5 10

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<210> 1439

<211> 14

<212> PRT

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Ser Leu Phe Ser Leu Lys Gln Ser Ser Arg Arg Thr Lys Thr
1 5 10

<210> 1440

<211> 9

<212> PRT

<213> Homo sapiens

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Thr Ser Leu Leu Gln Gly Thr Pro Thr
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<211> 14

<212> PRT

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<400> 1441

Ile Ile Leu Ile Val Glu Leu Ala Gly Ser Arg Pro Ala Ser
1 5 10

<210> 1442

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<212> PRT

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<223> cSNP translation

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<400> 1442

Ile Leu Ile Val Glu Leu Ser Gly Ser Arg Pro Ala Ser Pro
1 5 10

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<223> cSNP translation

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Asn Thr Gln Gln Gln Gln Asn Tyr Ile Arg Trp Ser Leu
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<210> 1444

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<212> PRT

<213> Homo sapiens

<220>

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<223> cSNP translation

<400> 1444

Thr Gln Gln Gln Gln Leu His
1 5

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<211> 14

<212> PRT

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<220>

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<223> cSNP translation

<400> 1445

Tyr Pro Ala His Ala Phe Trp Arg Pro Ser Ser Gly Val Ser
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<213> Homo sapiens

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<220>
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Gly Ala Tyr Ala Gln Ala
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<223> cSNP translation

<400> 1447
Ser Thr Ala Leu Arg Ala Asp Ser Thr Gly
1 5 10

<210> 1448
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<212> PRT
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<400> 1448
Arg Val Leu Ile Leu Asp Thr Phe Thr Cys Leu Leu Cys Leu
1 5 10

<210> 1449
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<212> PRT
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<400> 1449
Tyr Arg Gln Val Asp His Phe Pro Gln Ile His
1 5 10

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<210> 1450
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Lys Leu Leu Val Cys Asn Met Met Asp Val Ser Pro Met Ala
1 5 10

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<212> PRT
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<400> 1451
Asp Trp Asn Ser Ser Lys Thr Thr Val Pro Leu Asn Met Pro
1 5 10

<210> 1452
<211> 14
<212> PRT
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<400> 1452
Leu Ser Glu Ala Pro Gly Ser Leu Pro Gln Pro Leu Ser His
1 5 10

<210> 1453
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<220>
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CURA-99

<223> cSNP translation

<400> 1453

Thr Ile Lys Ser Ala Val Ala Ser Gly Ile Ser Leu Pro Arg
1 5 10

<210> 1454

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<212> PRT

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<223> cSNP translation

<400> 1454

Pro Asp Arg Val Gly Arg Gln Ser Leu Lys Ser Ser Leu Glu
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<210> 1455

<211> 14

<212> PRT

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Val Cys Thr Ala Arg Ser Pro Ser Val Arg Ser Ala Arg Ser
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<211> 6

<212> PRT

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<223> cSNP translation

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Asn Gln Glu Gly Asp Phe
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<210> 1457

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<213> Homo sapiens

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<223> cSNP translation

<400> 1457

Leu Gln Val Pro Ala Val Thr Gly Leu Thr Pro Gln Pro Val
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<211> 14

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<213> Homo sapiens

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<223> cSNP translation

<400> 1458

Ser Val Gln Arg Val Arg Gln Ser Val Lys Asn Leu Ile Lys
1 5 10

<210> 1459

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1459

Thr Ala Glu Glu Met Tyr Ile Tyr Leu Gly Asn Met Asp Leu
1 5 10

<210> 1460

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1460

Ala His Gln Gly Asn Leu Ala Pro Val Phe Ile Ala Met Gln

CURA-99

1 5 10

<210> 1461
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<400> 1461
Pro Gly Glu His Thr Pro Cys Trp Pro Leu Pro Arg Pro Ser
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<400> 1462
Arg Met Leu Asp Val Leu Gly Leu Ser Thr Ser Cys Arg Cys
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Val Asp Glu Leu Pro Val Gln Ala Gly Ala Ala Thr Gly Ser
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<210> 1464
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<213> Homo sapiens

<220>
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<222> (7)...(0)

<223> cSNP translation

<400> 1464

Ala Tyr His Ser Gly Tyr Glu Pro Thr Ala Pro Ser Thr Gly
1 5 10

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<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<223> cSNP translation

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Val Met Asn Asp Leu Ser Gly Glu Pro Trp Thr Arg Arg Pro
1 5 10

<210> 1466

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<223> cSNP translation

<400> 1466

Arg Lys Gln Ala Val Arg Leu Arg Arg Ile Phe Ser Ala Ile
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<210> 1467

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<212> PRT

<213> Homo sapiens

<220>

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<223> cSNP translation

<400> 1467

Ile Asp Ala Leu Arg Gly Arg Ala
1 5

<210> 1468

<211> 11

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<212> PRT
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<220>
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<223> cSNP translation

<400> 1468

Ser Cys Arg Phe Arg Glu Ala Thr Trp Ala Thr
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